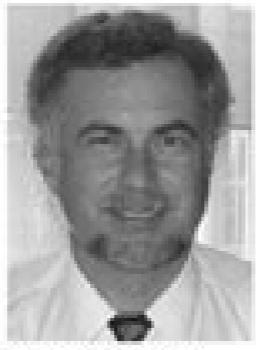
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## Guest editorial



Michael Schütze

### High temperature corrosion issues in the chemical and petrochemical industries

Among those industries facing challenges from high temperature corrosion, the chemical process and petrochemical industries have a significant share of the problems. Although the reliability and operation stability of the plants are nevertheless high, there is still great interest in broadening knowledge in this field mostly from the viewpoint of increasing plant or process efficiency by extending the life-time of the components or by allowing the use of even more aggressive process environments, without cutbacks in plant performance. Against this basis, a two day workshop was held on these topics as part of EUROCORR 2004 in Nice, France, addressing issues of 'Coke deposition, carburisation and metal dusting' and of 'Corrosion by highly aggressive environments'. Although written versions of the presentations appeared on the conference CD ROM, it was agreed with the organisers of EUROCORR 2004 that selected papers from this workshop should also be published in an extended form in a technical-scientific journal. It was thanks to the help of Dr Paul McIntyre, the editor of Corrosion Engineering, Science and Technology, that a special issue of this journal could be devoted to selected papers from this workshop. After a general overview on high temperature materials issues in the chemical and petrochemical industries, describing practical experience by one of the large international companies, the following papers deal with aspects of material behaviour in combustion environments as well as in highly aggressive atmospheres. It is definitely not intended to cover the whole range of applications at high temperatures in these industries, but the papers give a good flavour of the current issues, research activities and needs in this field. As the manuscripts were extended and updated after the conference, aspects of the discussion could also be taken into account in the papers published here.

The readiness of the authors to revise their manuscripts for publication in Corrosion Engineering, Science and Technology is gratefully acknowledged and thanks are also due to Dr Paul McIntyre for committing himself to the preparation of this special issue. This issue may help to spread this important knowledge well beyond the group of participants of EUROCORR 2004.

**Michael Schütze**  
Chairman of the EFC working party 'Corrosion by hot gases and combustion products'

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# Conjunctivitis A Complex and Multifaceted Disorder

Zdenek Pelikan

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Neelis, Maarten, Worrell, Ernst, and Masanet, Eric., This Energy Guide discusses energy efficiency practices and energy efficient technologies that can be implemented at the component, process, facility, and organizational levels. It also includes a section devoted specifically to petroleum and petrochemical industry related issues Year: 2,015 Edition: Second edition Pages: 500 Pages In File: 426 Language: English Identifier: 1-62708-094-5,078-1-62708-094-1 Org File Size: 117,230,368 Extension: pdf Tags: Petroleum chemicals industry - Equipment and supplies - Corrosion, OSTI GOV Technical Report, Energy Efficiency Improvement and Cost Saving Opportunities for the Petrochemical Industry - An ENERGY STAR(R) Guide for Energy and Plant Managers Energy is the most important cost factor in the U.S. petrochemical industry, defined in this guide as the chemical industry sectors producing large volume basic and intermediate organic chemicals as well as large volume plastics. United States, @article{osti\_937505, title = {Energy Efficiency Improvement and Cost Saving Opportunities for the Petrochemical Industry - An ENERGY STAR(R) Guide for Energy and Plant Managers}, author = {Neelis, Maarten and Worrell, Ernst and Masanet, Eric}, abstractNote = {Energy is the most important cost factor in the U.S. petrochemical industry, defined in this guide as the chemical industry sectors producing large volume basic and intermediate organic chemicals as well as large volume plastics. Typical measure payback periods and references to further information in the technical literature are also provided, when available. more} } The information in this Energy Guide is intended to help energy and plant managers in the U.S. petrochemical industry reduce energy consumption in a cost-effective manner while maintaining the quality of products manufactured. 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Preview is not currently available. Spider web. The improvement of energy efficiency is an important way to reduce these costs and increase predictable earnings, especially in times of volatility of high energy prices. Further research on the economy of all measures-e on the application to different production-production practices are necessary to evaluate their effectiveness in terms of costs in individual plants. A less authors: Neelis, Maarten; Worrell, Ernst; Masanet, Eric Publication Date: MON 01 Set 00:00:00 EDT 2008 Research Organ: Lawrence Berkeley National Lab. [Https://doi.org/10.2172/937505](https://doi.org/10.2172/937505). There are a variety of opportunities available in individual plants in the petrochemical industry of the United States to reduce energy consumption economically. 2008, p., 2008. Subsequently, a large variety of energy efficiency measures are described. The article has already confirmed that it has permission to publish it. The protection methods discusses, including the discussion on corrosion inhibitors and the resistance to aluminum corrosion, magnesium, stainless steel and nickel. (LBNL), Berkeley, Ca (United States) Org Sponsor.: Division Osti Technologies of Environmental Energy: 937505 NUMBER /1 report: LBNL-964etru: US200821 %42 Number of the Doe Contract: à € De-AC02-05CH11231 Type of resource type of resource Technical relationship Country Publication: United States Language: English Subject: 32; Chemical industry; ECONOMY; Electricity; ENERGY CONSUMPTION; ENERGY EFFICIENCY; Reimbursement; Petrochemicals; Plastic; Prices; PRODUCTION; Volatility €; petrochemical, improvement of energy efficiency, energy guide, energy, STAR? Many measurement descriptions include savings foreseen in energy costs and energy related to the data of case studies of the real world applications in the petrochemical and related worldwide industries. 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